

A METHOD OF SERVICE PROVISION IN A COMMUNICATIONS NETWORK  
AND FURTHERMORE PROGRAM MODULES AND MEANS THEREFOR

Claims

1. A method for providing personal services for a communication means (TERA, TERB) of a user, said communication means (TERA, TERB) being connected to a communication network (NET), the method comprising the steps of:
  - transmission by a service server (SSV) of a first service container (CONT1) containing a service machine (SM1) to a service computer (SSC),
  - execution by said service computer (SSC) of said service machine (SM1), said service machine (SM1) managing the execution of a personal service for said communication means (TERA, TERB),
  - provision by said service computer (SSC) of at least one network lock (NWL) for said first service container (CONT1), said at least one network lock (NWL) offering to said first service container (CONT1) a predefined interface to said communication network (NET) for the provision of said personal service, and
  - provision of said personal service by execution or by application by said service machine (SM1) of at least one service component (CP1, CP2, CP3) being transmitted to said service computer (SSC) via said first service container (CONT1) or via a second service container (CONT2).
2. The method as claimed in claim 1, characterized by provision by the service computer (SSC) of at least one monitor lock (CDRL) for said first service container (CONT1), via said at least one monitor lock (CDRL) said first service container (CONT1) informs the service server (SSV) of a condition of the service computer (SSC).
3. The method as claimed in claim 1, characterized by provision by the service computer (SSC) of at least one management lock (NML) for said first service

container (CONT1), via said at least one management lock (NML) said first service container (CONT1) sends alarms to an operator terminal or a network management system (NMS).

4. The method as claimed in claim 1, characterized in that said terminal (TERA, TERB) sends a request for said service to the service server (SSV).
5. The method as claimed in claim 1, characterized in that it is carried out in an Intelligent Network representing said communication network (NET).
6. The method as claimed in claim 1, characterized in that the service computer (SSC) provides the a resource lock (API) for said first service container (CONT1), said resource lock (API) offering to said first service container (CONT1) an application program interface and/or an interface towards a special resource point and/or an interface towards a service program interface.
7. A service computer (SSC) for providing personal services for a communication means (TERA, TERB) of a user, said communication means (TERA, TERB) being connected to a communication network (NET),
  - said service computer (SSC) comprising receiving means (TRSC, CONL) for receiving of a first service container (CONT1) containing a service machine (SM1) from a service server (SSV),
  - said service computer (SSC) comprising network lock means (NWL, TRSC) designed such that the service computer (SSC) can provide at least one network lock (NWL) for said first service container (CONT1), said at least one network lock (NWL) offering to said first service container (CONT1) a predefined interface to said communication network (NET) for provision of a personal service for said communication means (TERA, TERB) and
  - said service computer (SSC) comprising execution means (CPUSC, SCM) designed such that the service computer (SSC) can execute said service machine (SM1), said service machine (SM1) managing the provision of said personal service for said communication means (TERA, TERB) and said service machine (SM1) executing or applying at least one service component (CP1, CP2, CP3) for provision of said personal service, said service compo-

nent (CP1, CP2, CP3) being transmitted to said service computer (SSC) via said first service container (CONT1) or via a second service container (CONT2).

8. A service computer module (SCM) for a service computer (SSC) for providing personal services for a communication means (TERA, TERB) of a user, said communication means (TERA, TERB) being connected to a communication network (NET),
  - said service computer module (SCM) containing program code able to be executed by a control means (CPUSC) of the service computer (SSC),
  - said service module comprising receiving means (CONL) for receiving of a first service container (CONT1) containing a service machine (SM1) from a service server (SSV),
  - said service computer module (SCM) comprising network lock means (NWL) designed such that the service computer (SSC) can provide at least one network lock (NWL) for said first service container (CONT1), said at least one network lock (NWL) offering to said first service container (CONT1) a predefined interface to said communication network (NET) for provision of a personal service for said communication means (TERA, TERB) and
  - said service computer module (SCM) comprising execution means (SCM) designed such that the service computer (SSC) can execute said service machine (SM1), said service machine (SM1) managing the provision of said personal service for said communication means (TERA, TERB) and said service machine (SM1) executing or applying at least one service component (CP1, CP2, CP3) for provision of said personal service, said service component (CP1, CP2, CP3) being transmitted to said service computer (SSC) via said first service container (CONT1) or via a second service container (CONT2).
9. A service server (SSV) for providing personal services for a communication means (TERA, TERB) of a user, said communication means (TERA, TERB) being connected to a communication network (NET),

- said service server (SSV) comprising receiving means (TRSV) for receiving a request for a personal service for said communication means (TERA, TERB),
- said service server (SSV) comprising provision means (SSM, SCE, DB) for providing at least one first service container (CONT1)
  - containing a service machine (SM1) able to manage the execution of said personal service and said service machine (SM1) further able to execute or to apply at least one service component (CP1, CP2, CP3) for said service provision, when said service machine (SM1) is executed by a service computer (SSC), said service component (CP1, CP2, CP3) being contained in said first service container (CONT1) or in a second service container (CONT2), and
  - said at least one first service container (CONT1) being adapted to make use of at least one network lock (NWL) provided by said service computer (SSC) and offering to said at least one first service container (CONT1) a predefined interface to said communication network (NET), and
- said service server (SSV) comprising transmission means (TRSV) for transmission of said at least one first service container (CONT1) to said service computer (SSC).

10. A service server module (SSM) for a service server (SSV) for providing personal services for a communication means (TERA, TERB) of a user, said communication means (TERA, TERB) being connected to a communication network (NET),

- said service server module (SSM) containing program code able to be executed by a control means (CPUSV) of the service server (SSV),
- said service server module (SSM) comprising receiving means for receiving a request for a personal service for said communication means (TERA, TERB),
- said service server module (SSM) comprising provision means (SSM, DB, SCE) for providing at least one first service container (CONT1)
  - containing a service machine (SM1) able to manage the execution of said personal service and said service machine (SM1) further able to execute

or to apply at least one service component (CP1, CP2, CP3) for said service provision, when said service machine (SM1) is executed by a service computer (SSC), said service component (CP1, CP2, CP3) being contained in said first service container (CONT1) or in a second service container (CONT2), and

- said at least one first service container (CONT1) being adapted to make use of at least one network lock (NWL) provided by said service computer (SSC) and offering to said at least one first service container (CONT1) a predefined interface to said communication network (NET), and
- said service server module (SSM) comprising transmission means for transmission of said at least one first service container (CONT1) to said service computer (SSC).

11. A (first) service container (CONT1) for providing personal services for a communication means (TERA, TERB) of a user, said communication means (TERA, TERB) being connected to a communication network (NET),

- said first service container (CONT1) containing program code able to be executed by a control means of a service computer (SSC),
- said first service container (CONT1) containing a service machine (SM1) able to manage the execution of a personal service and said service machine (SM1) further able to execute or to apply at least one service component (CP1, CP2, CP3) for said service provision, when said service machine (SM1) is executed by said service computer (SSC), said service component (CP1, CP2, CP3) being contained in said first service container (CONT1) or in a second service container (CONT2), and
- said first service container (CONT1) being adapted to make use of at least one network lock (NWL) provided by said service computer (SSC) and offering to said first service container (CONT1) a predefined interface to said communication network (NET).